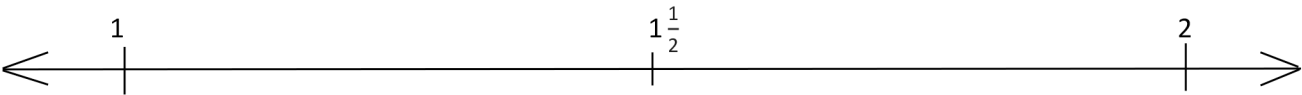Name _____   Date _____

1. Place the following fractions on the number line given.

    a. $\dfrac{3}{2}$ b. $\dfrac{9}{5}$ c. $\dfrac{14}{10}$

2. Use the number line in Problem 1 to compare the fractions by writing >, <, or = on the lines:

    a. $1\dfrac{1}{6}$ _____ $1\dfrac{4}{12}$ b. $1\dfrac{1}{2}$ _____ $1\dfrac{4}{5}$
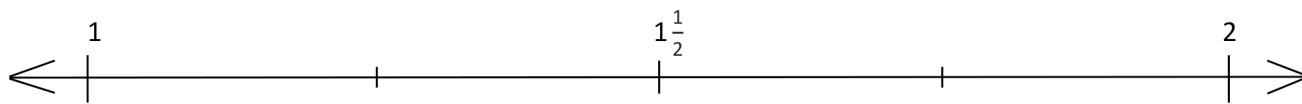
3. Place the following fractions on the number line given.

    a. $\dfrac{12}{9}$ b. $\dfrac{6}{5}$ c. $\dfrac{18}{15}$

4. Use the number line in Problem 3 to explain the reasoning you used when determining whether $\dfrac{12}{9}$ or $\dfrac{18}{15}$ was greater.

5. Compare the fractions given below by writing > or < on the lines.
Give a brief explanation for each answer referring to benchmarks.

a. $\dfrac{2}{5}$ _____ $\dfrac{6}{8}$

b. $\dfrac{6}{10}$ _____ $\dfrac{5}{6}$

c. $\dfrac{6}{4}$ _____ $\dfrac{7}{8}$

d. $\dfrac{1}{4}$ _____ $\dfrac{8}{12}$

e. $\dfrac{14}{12}$ _____ $\dfrac{11}{6}$

f. $\dfrac{8}{9}$ _____ $\dfrac{3}{2}$

g. $\dfrac{7}{8}$ _____ $\dfrac{11}{10}$

h. $\dfrac{3}{4}$ _____ $\dfrac{4}{3}$

i. $\dfrac{3}{8}$ _____ $\dfrac{3}{2}$

j. $\dfrac{9}{6}$ _____ $\dfrac{16}{12}$

Answer Key

1. Points plotted appropriately for $\frac{3}{2}, \frac{9}{5}, \frac{14}{10}$

2. a. $<$

   b. $<$

3. Points plotted appropriately for $\frac{12}{9}, \frac{6}{5}, \frac{18}{15}$

4. Explanations will vary.

5. a. $<$; explanations will vary.

   b. $<$; explanations will vary.

   c. $>$; explanations will vary.

   d. $<$; explanations will vary

   e. $<$; explanations will vary.

   f. $<$; explanations will vary.

   g. $<$; explanations will vary.

   h. $<$; explanations will vary.

   i. $<$; explanations will vary.

   j. $>$; explanations will vary.